INTERNATIONAL SEARCH REPORT

Form PCT/ISA/210 (second sheet) (January 2004)

International application No.

PCT/JP2004/010410 A. CLASSIFICATION OF SUBJECT MATTER Int.Cl7 H01L31/10, H01L27/14 According to International Patent Classification (IPC) or to both national classification and IPC **B. FIELDS SEARCHED** Minimum documentation searched (classification system followed by classification symbols) H01L31/00-31/10, H01L27/14 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Jitsuyo Shinan Koho 1922-1996 Toroku Jitsuyo Shinan Koho Kokai Jitsuyo Shinan Koho 1971-2004 Jitsuyo Shinan Toroku Koho 1996-2004 Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) C. DOCUMENTS CONSIDERED TO BE RELEVANT Category* Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. Y WO 96/36999 A1 (DR. JOHANNES HEIDENHAIN GMBH.), 09 May, 1996 (09.05.96), & EP 771475 A & DE 296023349 U & JP 10-508987 A & US 5852322 Al Full text; all drawings JP 2000-299489 A (Hamamatsu Photonics Kabushiki Kaisha), 24 October, 2000 (24.10.00), Y Full text; all drawings 1-6 Y Par. Nos. [0009] to [0011], [0018] to [0019] 4-6 Further documents are listed in the continuation of Box C. See patent family annex. later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention Special categories of cited documents: document defining the general state of the art which is not considered to be of particular relevance earlier application or patent but published on or after the international "X" document of particular relevance; the claimed invention cannot be filing date considered novel or cannot be considered to involve an inventive step when the document is taken alone document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other document of particular relevance; the claimed invention cannot be special reason (as specified) considered to involve an inventive step when the document is combined with one or more other such documents, such combination document referring to an oral disclosure, use, exhibition or other means being obvious to a person skilled in the art document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 22 October, 2004 (22.10.04) 09 November, 2004 (09.11.04) Name and mailing address of the ISA/ Authorized officer Japanese Patent Office Telephone No.

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PC1/3P2004/010410			
C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT			
Category*	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.
Y	JP 2002-319669 A (Hamamatsu Photonics Kabushiki Kaisha), 31 October, 2002 (31.10.02), Figs. 1, 4 (Family: none)		2-6
X Y	JP 2-185070 A (Matsushita Electric Indust Co., Ltd.), 19 July, 1990 (19.07.90), Full text; all drawings (Family: none)	trial	1 2-6
A	(Family: none) WO 97/23897 A2 (DR. JOHANNES HEIDENHAIN (20 December, 1997 (20.12.97), & DE 19549228 A1		1-6